

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/DE2005/000138

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16J9/26 C23C4/06 C23C4/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16J C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 102 00 508 A1 (DANA CORP., TOLEDO) 11 July 2002 (2002-07-11) page 4, lines 33-35 claim 1	1-12
A	DE 197 20 627 A1 (CUMMINS ENGINE CO., INC., COLUMBUS, IND., US) 20 November 1997 (1997-11-20) cited in the application page 4, lines 42-48 page 5, lines 3,4 page 5, lines 9,10 figure 1	1-12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

13 May 2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 006, no. 117 (M-139), 30 June 1982 (1982-06-30) & JP 57 046048 A (RIKEN CORP), 16 March 1982 (1982-03-16) cited in the application abstract	1-12
A	US 3 723 259 A (UMEZAWA K,JA) 27 March 1973 (1973-03-27) column 1, lines 57-65 figure	1-12

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 10200508	A1	11-07-2002	US 6562480 B1 BR 0200081 A	13-05-2003 22-10-2002
DE 19720627	A1	20-11-1997	US 5713129 A BR 9703564 A GB 2313171 A ,B JP 10061767 A	03-02-1998 11-08-1998 19-11-1997 06-03-1998
JP 57046048	A	16-03-1982	NONE	
US 3723259	A	27-03-1973	NONE	